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Substitute for form 1449/PTO				Complete If Known	
				Application Number	
				Filing Date	
				First Named Inventor	James L. Barnard
				Art Unit	
				Examiner Name	
Sheet	1	of	3	Attorney Docket Number	10,158

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
FP		US-6,344,143	02/05/06 2002	Ahn, et al.	
		US-6,338,800	01/15/06 2002	Kulperger, et al.	
		US-6,312,599	11/06/04 2004	Reid	
		US-6,139,743	10/31/00 2000	Park, et al.	
		US-6,030,528	02/29/00 2000	Han	
		US-5,942,108	08/24/98 1998	Yang	
		US-5,733,456	03/31/98 1998	Okey, et al.	
		US-5,601,719	02/11/97 1997	Hawkins, et al.	
		US-5,266,200	11/30/92 1993	Reid	
		US-5,228,996	07/20/92 1993	Lansdell	
		US-4,917,805	04/17/87 1990	Reid	
		US-4,507,207	03/26/85 1985	Verhoeve, et al.	
		US-4,500,429	02/19/85 1985	Reimann, et al.	
		US-4,488,967	12/18/84 1984	Block, et al.	
		US-4,415,454	11/15/88 1983	Fuchs	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature	<i>Jan Pin</i>	Date Considered	9/18/05
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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	
				Filing Date	
				First Named Inventor	James L. Barnard
				Art Unit	
				Examiner Name	
Sheet	2	of	3	Attorney Docket Number	10,158

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		Number-Kind Code ² (if known)			
FP		US-4,183,808	01/15/05 1980	Drnevich	
		US-3,964,998	06/22/80 1976	Barnard	
		US-3,385,785	05/04/66 1966	Forrest, et al.	
		US-3,236,766	03/31/64 1964	Levin	
		US-			

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Examiner Initials	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature	<i>James L. Barnard</i>	Date Considered	9/18/05
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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(Use as many sheets as necessary)</small>		Application Number	10/790,518
		Filing Date	3/1/2004
		First Named Inventor	James L. Barnard
		Art Unit	
		Examiner Name	
Sheet	3	of	3
		Attorney Docket Number	10,158

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue numbers(s), publisher, city and/or country where published.		T ²
FP		South Cary Water Reclamation Facility's Nutrient Removal Modifications and Reduction Success, Town of Cary, North Carolina, Publication Date: 2001.		
FP		Evaluation of Several Water Reclamation Facilities Employing Biological Nutrient Removal in North Carolina, Publication Date: November 2001.		
FP		New BPR Process Achieves High Phosphorous Removal Levels, Publication Date: October 1994.		
FP		Conference on New Directions and Research in Waste Water and Residuals Management the Role of Full Scale Research in Biological Phosphate Removal, James L. Barnard, DATE UNKNOWN		
FP		Fermentation of Return Activated Sludge to Enhance Biological Phosphorus Removal, Publication Date: 2002.		
FP		EXHIBIT 1 - VARIOUS TREATMENT FACILITIES, DATES UNKNOWN		

Examiner Signature	James L. Barnard	Date Considered	9/18/05
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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(Use as many sheets as necessary)</small>		Application Number	10/790,518
		Filing Date	March 1, 2004
		First Named Inventor	James L. Barnard
		Art Unit	
		Examiner Name	
1	sheet	Attorney Docket Number	10,158

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
Signature

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Date
Considered

9/18/05

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